

1. The area, A , of a circle with a radius of r can be calculated by using the formula below.

$$A = \pi r^2$$

What happens to the area of a circle when the radius is tripled?

- A. The area increases by a factor of 3
- B. The area increases by a factor of 4
- C. The area increases by a factor of 6
- D. The area increases by a factor of 9